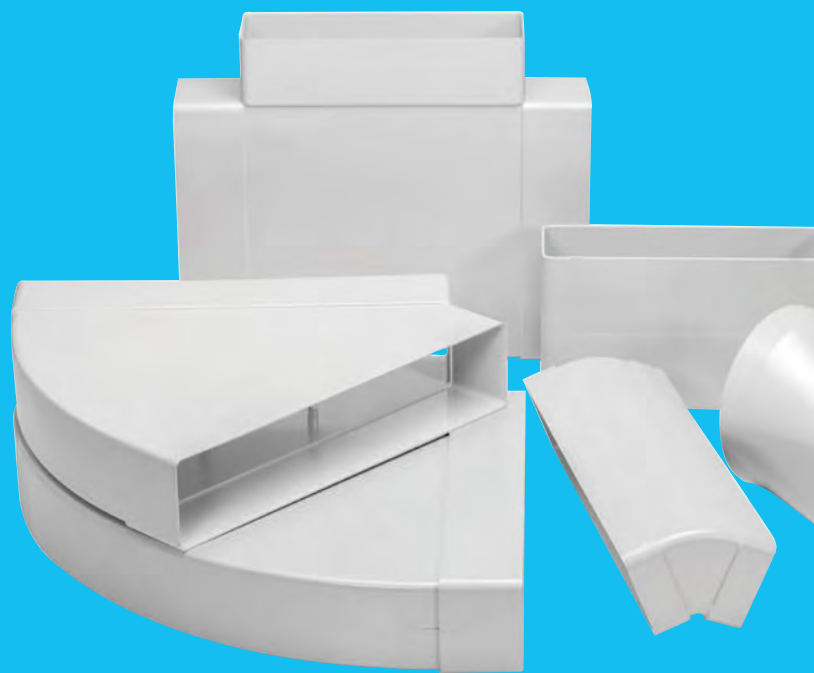


idealair
group

low profile duct system



HAD201	HAD254	HAD351
HAD202	HAD255	HAD352
HAD203	HAD256	HAD353
HAD204	HAD257	HAD354
HAD205	HAD258	HAD357
HAD207	HAD301	HAD358
HAD208	HAD302	HAD359
HAD209	HAD303	HAD902
HAD210	HAD304	HAD3512
HAD213	HAD306	HAD3516
HAD215	HAD307	HAD3518
HAD251	HAD308	HAD3522
HAD252	HAD309	
HAD253	HAD312	



LOW PROFILE DUCT SYSTEM

200, 250, 300 & 350 Series

A low profile duct system for restricted ceiling spaces

The Hydor Low Profile Duct System has been specifically designed to meet the needs of modern day applications. The HDA series has been developed to offer a solution to engineers who face limited access in ceiling voids and cavities, which is often the norm in modern day apartments, hotels and domestic dwellings.

As the Hydor Low Profile Duct System is available in multiple profiles, you will be able to select the right system to meet your airflow requirements and increase efficiency. This is a critical factor that often results in reduced fan size and less energy consumption.

The installation time for this range has been greatly reduced by using ideally matched fittings and ancillary products that you will find in the Hydor range. This lightweight alternative to sheet metal is hygienic and due to the self-extinguishing PVC construction will not suffer from corrosion.

As with all Hydor products, the Low Profile Duct System has been rigorously tested by Australia's leading institutions to ensure confidence in its reliability, suitability and quality. The specifier and contractor can be assured the product they install will deliver the performance required and have confidence it meets all the standards and requirements of the system design.

Features

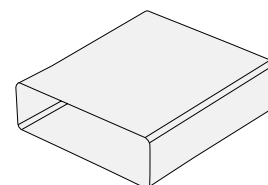
- Hygienic
- Corrosion free
- Lightweight
- Low velocity
- Self extinguishing
- Ease of installation
- Can be cut down on site using non-specialist equipment
- Low air leakage
- Thoroughly tested by Australian experts
- Multiple sizes
- Wide range of fittings, making it very versatile
- Wide range of additional ancillaries

Low Profile Duct & Duct Fittings

Low Profile Duct

Product Code	System	Size
HAD201	200 series	204 x 60 - 2000
HAD251	250 series	250 x 80 - 2000
HAD301	300 series	300 x 60 - 2000
HAD351	350 series	350 x 75 x 2000

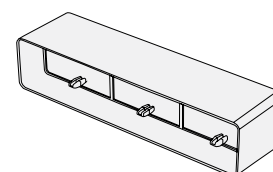
Dimensions in millimetres



Connector

Product Code	System	Size
HAD202	200 series	204 x 60 - 123
HAD252	250 series	250 x 80 - 80
HAD302	300 series	300 x 60 - 80
HAD352	350 series	350 x 75 x 80

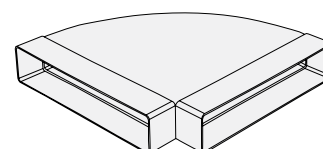
Dimensions in millimetres



Horizontal 90 Bend

Product Code	System	Size
HAD203	200 series	204 x 60
HAD253	250 series	250 x 80
HAD312	300 series	300 x 60
HAD3512	350 series	350 x 75

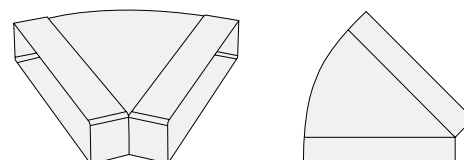
Dimensions in millimetres



Horizontal 45 Bend

Product Code	System	Size
HAD210	200 series	204 x 60
HAD254	250 series	250 x 80
HAD304	300 series	300 x 60
HAD354	350 series	350 x 75

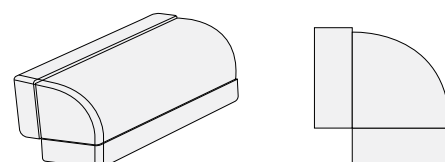
Dimensions in millimetres



Vertical 90 Bend

Product Code	System	Size
HAD3516	350 series	350 x 75

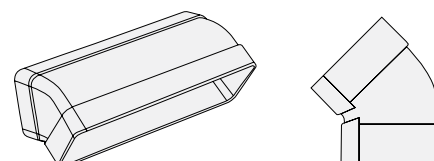
Dimensions in millimetres



Vertical 45 Bend

Product Code	System	Size
HAD213	200 series	204 x 60
HAD258	250 series	250 x 80
HAD309	300 series	300 x 60
HAD359	350 series	350 x 75

Dimensions in millimetres

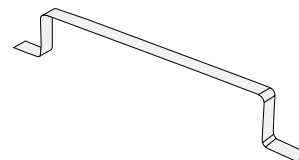


Low Profile Duct & Duct Fittings (cont.)

Metal Fix Clip

Product Code	System	Size
HAD209	200 series	204 x 60 - 290
HAD308	300 series	300 x 60 - 380
HAD358	350 series	350 x 75 x 425

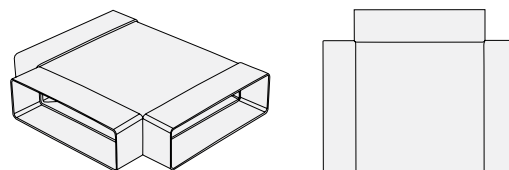
Dimensions in millimetres



Horizontal T Piece

Product Code	System	Size
HAD205	200 series	204 x 60 : 204 x 60
HAD255	250 series	250 x 80 : 110 x 54
HAD303	300 series	300 x 60 : 300 x 60
HAD353	350 series	350 x 75 : 350 x 75

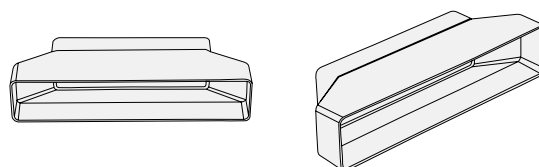
Dimensions in millimetres



Rectangular Reducer

Product Code	System	Size
HAD256	250 series	250 x 80 : 204 x 60
HAD306	300 series	300 x 60 : 204 x 60

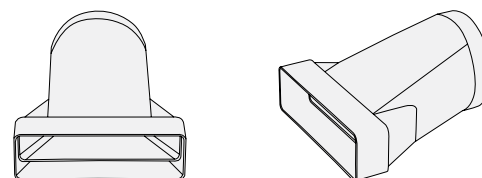
Dimensions in millimetres



Round to Rectangular Reducer

Product Code	System	Size
HAD207	204 x 60 series	204 x 60 : Ø 125
HAD257	250 x 80 series	250 x 80 : Ø 150
HAD307	300 x 60 series	300 x 60 : Ø 150
HAD357	350 x 75 series	350 x 75 : Ø 150

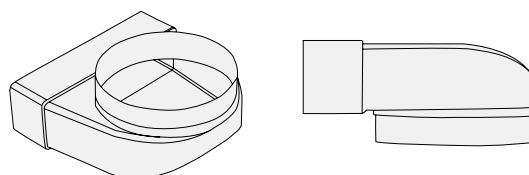
Dimensions in millimetres



90 Bend Spigot

Product Code	System	Size
HAD204	204 x 60 series	204 x 60 : Ø 150
HAD3518	350 series	350 x 75 : Ø 150

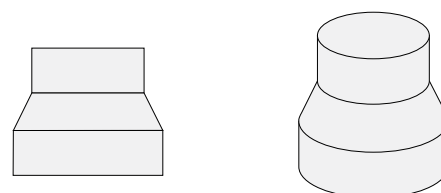
Dimensions in millimetres



Circular Reducer

Product Code	System	Size
HAD208	200 series	Ø 100 : Ø 150
HAD215	200 series	Ø 125 : Ø 150
HAD902	200 series	Ø 150 : Ø 200
HAD3522	350 series	Ø 125 : Ø 100

Dimensions in millimetres



NOTE: Data for HAD201, 251, 301 & 351 is for 2 metre lengths

Series 200 low profile duct		Airflow (l/sec)				
		25	50	75	100	125
Part #	Description	Pressure Loss (Pa)				
HAD201	Flat duct - 204mm x 60mm - 2m long	3	10.5	22	38	58
HAD202	Duct connector to suit	0.2	0.8	1.5	2.4	3.8
HAD203	Horizontal 90° bend	5	21	48	86	136
HAD204	90° bend rectangular spigot to Ø 150	5	15	36	65	103
HAD205	Horizontal T piece	-	-	-	-	-
HAD207	Round to rectangular reducer - Ø 125	2.7	11	23.5	43	67.5
HAD210	Horizontal 45° bend	2	9	23	46	78
HAD213	Vertical 45° bend	2	9	21	37	58

Series 200 low profile duct		Airflow (l/sec)				
		25	50	75	100	125
Part #	Description	Pressure Loss (Pa)				
HAD251	Flat duct - 250mm x 80mm - 2m long	0.5	1.6	3.3	5.7	8.3
HAD252	Duct connector to suit	-	-	-	-	-
HAD253	Horizontal 90° bend	1.3	5	11.3	20	31.7
HAD254	Horizontal 45° bend	0.6	1.7	3.7	6.4	9.8
HAD255	Horizontal T piece	-	-	-	-	-
HAD257	Round to rectangular reducer - Ø 150	0.5	1.3	2.4	4	5.8
HAD258	Vertical 45° bend	1.5	9.2	21	37	58
Part #	Description	Pressure Loss (Pa)				
HAD208	Circular Reducer - Ø 100 to Ø 150	5.5	22	46	77	110
HAD215	Circular Reducer - Ø 125 to Ø 150	2	5.3	17.5	34.5	51.5
Pressure Loss (Pa)	Description	Pressure Loss (Pa)				
HAD256	Rectangular Reducer - 250x80 to 204x60	2.5	10.5	23	41	68
HAD306	Rectangular Reducer - 300x60 to 204x60	3.1	13	29.2	51	82.5

Series 300 low profile duct		Airflow (l/sec)				
		25	50	75	100	125
Part #	Description	Pressure Loss (Pa)				
HAD301	Flat duct - 300mm x 60mm - 2m long	0.5	2.1	4.3	7.5	11.3
HAD302	Duct connector to suit	-	-	-	-	-
HAD303	Horizontal T piece	-	-	-	-	-
HAD304	Horizontal 45° bend	0.6	2.4	5.2	10	14
HAD307	Round to rectangular reducer - Ø 150	0.2	4.4	9.2	18	25.5
HAD309	Vertical 45° bend	1	3.5	7.6	15.7	22
HAD312	Horizontal 90° bend	2	8.7	18.5	37	50

Series 350 low profile duct		Airflow (l/sec)					
		50	75	100	125	150	175
Part #	Description	Pressure Loss (Pa)					
HAD351	Flat duct - 350mm x 75mm - 2m long	0.9	1.9	3	4.5	6.9	9.9
HAD352	Duct connector to suit	-	-	-	-	-	-
HAD354	Horizontal 45° bend	0.4	1.1	2.2	3	4.3	5.4
HAD3512	Horizontal 90° bend	0.8	2.1	3.4	4.1	6.7	8.8
HAD359	Vertical 45° bend	1.8	3.6	8.2	10.9	14.7	21.2
HAD3516	Vertical 90° bend	2.2	6.8	12.3	17.4	23.8	36
HAD353	Horizontal T piece	1.8	3.6	6	9.3	11.5	16.8
HAD357	Round to rectangular reducer - Ø 150	1.7	3	4.2	6.5	9.1	12.5
HAD3522	Circular Reducer - Ø 125 to Ø 100	17.5	34.4	55	78	103	132
HAD3518	90° bend rectangular spigot to Ø 150	1	7.5	13.8	20.8	33.5	44

Available in multiple profiles, you will be able to select the right system to meet your airflow requirements and increase efficiency.





IMF Mixflow Series

Product Code	Description	Diameter (mm)	Max Airflow (l/s)	Speed (rev/min)	Noise dBA @ 3m	FLC (amps)	SC (amps)	Power (kw)	Run-On Timer
IMF100S	Hydor Mixflow In-Line Fan	100	65	2308	41	0.15	0.45	0.032	N/A
IMF100STC	Hydor Mixflow In-Line Fan	100	65	2308	41	0.15	0.45	0.032	Adjustable 3-15 mins
IMF125S	Hydor Mixflow In-Line Fan	125	98	2308	40	0.15	0.48	0.034	N/A
IMF125STC	Hydor Mixflow In-Line Fan	125	98	2308	40	0.15	0.48	0.034	Adjustable 3-15 mins
IMF150S	Hydor Mixflow In-Line Fan	150	163	2493	49	0.31	0.9	0.069	N/A
IMF150STC	Hydor Mixflow In-Line Fan	150	163	2493	49	0.31	0.9	0.069	Adjustable 3-15 mins
IMF200S	Hydor Mixflow In-Line Fan	200	0.258	2434	53	0.55	1.705	0.12	N/A
IMF200STC	Hydor Mixflow In-Line Fan	200	0.258	2434	53	0.55	1.705	0.12	Adjustable 3-15 mins

This data to be used for quick selection only, not to be used for commissioning.



HIT In-Line Centrifugal Fans

Product Code	Description	Diameter (mm)	Max Airflow (l/s)	Speed (rev/min)	Noise dBA @ 3m	FLC (amps)	SC (amps)	Power (kw)
HIT100	In-Line Centrifugal Fan	100	62	2600	46	0.26	0.9	0.06
HIT125	In-Line Centrifugal Fan	125	97	2500	47	0.27	0.95	0.06
HIT150	In-Line Centrifugal Fan	150	128	2600	47	0.26	0.9	0.06
HIT200	In-Line Centrifugal Fan	200	255	2500	51	0.66	2.3	0.16
HIT250B	In-Line Centrifugal Fan	250	305	2500	52	0.68	2.4	0.16
HIT315B	In-Line Centrifugal Fan	315	520	2500	56	1.02	3.6	0.23

This data to be used for quick selection only, not to be used for commissioning.

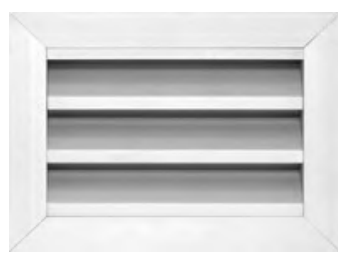
Associated Products



Backdraft Dampers

Premium high powered side ducted exhaust fan engineered to maintain high airflow over longer duct runs. Back-draft damper and AC plug & lead included.

Product Code	Description	Diameter (mm)
BDD4	In-line Backdraft Damper	100
BDD5	In-line Backdraft Damper	125
BDD6	In-line Backdraft Damper	150
BDD8	In-line Backdraft Damper	200
BDD10	In-line Backdraft Damper	250
BDD12	In-line Backdraft Damper	315



Snap on Box & Grille

(Suits Half Chevron & Weatherproof Louvres)

Product Code	Description	To suit	Size (mm)	Size (inch)
SOB95	Wall Mounted Snap On Box c/w 150mm Spigot	WPL95	225 x 125	9 x 5
SOB97	Wall Mounted Snap On Box c/w 150mm Spigot	WPL97 / HC97	225 x 175	9 x 7
WPL95	Weather Proof Louvre - Natural Anodised	SOB95	225 x 125	9 x 5
WPL97	Weather Proof Louvre - Natural Anodised	SOB97	225 x 175	9 x 7

This data to be used for quick selection only, not to be used for commissioning.

Associated Products

4 Zero Nude Flexible Core

Premium high powered side ducted exhaust fan engineered to maintain high airflow over longer duct runs. Back-draft damper and AC plug & lead included.

Product Code	Description	Diameter (mm)
D464Z	Duct Nude Core 4 Zero - 6 metre	100
D564Z	Duct Nude Core 4 Zero - 6 metre	125
D664Z	Duct Nude Core 4 Zero - 6 metre	150
D864Z	Duct Nude Core 4 Zero - 6 metre	200
D1064Z	Duct Nude Core 4 Zero - 6 metre	250
D1264Z	Duct Nude Core 4 Zero - 6 metre	300
D1464Z	Duct Nude Core 4 Zero - 6 metre	350
D1664Z	Duct Nude Core 4 Zero - 6 metre	400
D1864Z	Duct Nude Core 4 Zero - 6 metre	450
D2064Z	Duct Nude Core 4 Zero - 6 metre	500
D2264Z	Duct Nude Core 4 Zero - 6 metre	550



3 Zero Acoustic R1.0 Insulated Duct

(Suits Half Chevron & Weatherproof Louvres)

Product Code	Description	Diameter (mm)
DMI6610A	DMI 3 Zero R1.0 Acoustic - 6 metre	150
DMI8610A	DMI 3 Zero R1.0 Acoustic - 6 metre	200
DMI10610A	DMI 3 Zero R1.0 Acoustic - 6 metre	250
DMI12610A	DMI 3 Zero R1.0 Acoustic - 6 metre	300
DMI14610A	DMI 3 Zero R1.0 Acoustic - 6 metre	350
DMI16610A	DMI 3 Zero R1.0 Acoustic - 6 metre	400
DMI18610A	DMI 3 Zero R1.0 Acoustic - 6 metre	450
DMI20610A	DMI 3 Zero R1.0 Acoustic - 6 metre	500
DMI22610A	DMI 3 Zero R1.0 Acoustic - 6 metre	550

